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WHAT'S NEW *in* Oil Industry Onshore & Offshore Products *and* Services

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MAINTENANCE, RETROFIT, PLANT OPERATIONS Report:

The Newest Upstream, Midstream, Downstream Products & Services

Rod guides introduced to prevent tubing wear in PC downhole pumping

New Era Pathfinder rod guides are now on the market for progressing cavity downhole pumping. They are designed to extend rod and tubing life, reduce pressure drop and premature wear from sand, increase production, and reduce costs.

Marketed to fit 5/8 to 1-in. rod sizes and 2 7/8 to 3 1/2-in. tubing, the guides comprise a spin-thru design. This allows fluid to easily flow through four distinct channels molded directly into the rod guide sleeve. This flow path reduces pressure drop. It allows fluid to flow through the rod guide rather than limiting flow to the space around it.

Complete New Era Pathfinder details are yours free.

1 **R&M Energy Systems**
10586 Highway 75 North, Willis TX 77378

Pipe inspection camera introduced as portable

PILIT pipe inspection or push camera has been brought out to inspect up to 200 ft / 60 m in a portable package.

This 32-lb instrument is designed to remote-visually-inspect industrial lines as small as 1 in. Petrochemical facilities are among applications for the cameras including boiler tubes, process or steam feed lines, ducting and general remote visual inspection of inaccessible areas.

PILIT features include stainless steel construction for durability and corrosion resistance. Interchangeable 1 in. (25-mm) and 1.37 in. (34.8 mm) diameter camera heads offer pipeline inspection flexibility.

These cameras also offer alternating or direct current power with up to 3-hr battery operation. They comprise 60 gigabyte hard drive with USB transfer of inspection files and bright 7-in. LCD monitor with mini keyboard.

4 **Advanced Inspection Technologies Inc.**
7777 North Wickham Road, #12-557
Melbourne FL 32940

Heated walkway, stair mats melt snow on contact to reduce slips, falls

Keep work places clear and safe of snow and slip-or-fall-producing injuries with **HeatTrak heated walkway and stair mats**.

The durable, natural rubber mats lie on top of existing outdoor surfaces. They may be left outside for the entire winter. At 40-w/sq ft, they melt snow at a rate of 2-in./hour in temperatures as low as 0°F.

Although main benefits of HeatTrak are personnel safeguard from slips and falls — the mats also offer a more environmentally sound alternative to calcium chloride for melting snow and ice. Salted accesses lead to messy floors that discolor as foot traffic tracks calcium chloride inside. The mats also help prevent damage to the environment and surrounding vegetation.

Walkway mats come in 5-ft-long increments and 24, 26, or 48-in. widths. They measure 2x5, 2x10, 2x15-ft, etc. Both 120 and 240-v mats are available as are stair mats.

2 **HeatTrak LLC**
85-99 Hazel Street, Paterson NJ 07503

Rupture disc and noninvasive device offer pressure relief, protection

Opti-Gard rupture disc and integral Flo-Tel device deliver pressure relief and rupture detection.

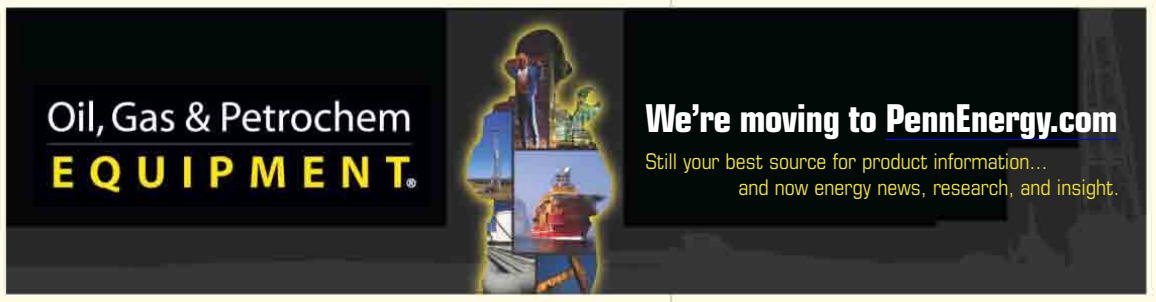
ASME UD-certified Opti-Gard serves in liquid, gas, or vapor applications. It delivers a single disc solution across a wide range of sizes and burst pressures, 95% operating-to-burst pressure ratio, plus 3% performance tolerance.

All Opti-Gard parts exposed to media flow are manufactured from either 316 stainless steel or corrosion-resistant Hastelloy C as standard.

Flo-Tel noninvasive detection device indicates when Opti-Gard has ruptured. It is reusable and requires a one-time installation. Since it is isolated from downstream pressure fluctuations or aggressive media, it will not cause unnecessary downtime through false "failure" indication.

Complete Opti-Gard and Flo-Tel information is yours free.

3 **OSECO**
Box 1327, Broken Arrow OK 74013-1327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MAINTENANCE, RETROFIT, PLANT OPERATIONS Report:

The Newest Upstream, Midstream, Downstream Products & Services

Fast response pipeline asset protection via surge relievers

Dresser Flexflo Surge Relievers are engineered to protect global energy company pipeline assets — and have done so for more than 50 years.

Models safeguard pipelines from excessive pressure surges in liquid applications. They are typically installed near loading terminals, pump stations, and tank farms.

Flexflos are designed to deliver "the fastest response time of any other surge relievers," according to their manufacturer. They are able to shave milliseconds from response time because they have virtually no friction from their single elastomeric moving part.

With Flexflo, its maker declares "a single moving part is also your assurance of low maintenance costs and years of reliable service."

Complete surge relievers data are yours free.

5 **Dresser Incorporated**
2822 South 1030 West, Salt Lake City UT 84119

Upgraded line fast-replaces damaged load-rack gangways

Newly redesigned, patent-pending **G4 Gangways** offer quick replacement of damaged units.

Via cutting edge metal-stamping technology, G4s are stronger gangways that are lighter and smoother to operate, notes the manufacturer.

These models are constructed using parts, most often aluminum, that are stamped out in a tool-and-die process then formed by bending the metal into required shape. This eliminates the need to weld pieces together. This production process is also quicker to enable more expedient delivery and turnaround.

All models have 90 shared parts that fold or unfold as gangways are employed. Metal-stamping means the units are more reproducible to yield accurate replacement parts that can be bolted into the original gangway. Additional G4 specifics are yours free.

7 **SafeRack LLC**
730 Electric Drive, Sumter SC 29153

Large-diameter-applicable high-pressure couplings unveiled

Maximize piping systems life in such abrasive services as oil sands, slurries, or tailings — with newly introduced **Style 207 & Style 277 high-pressure couplings**.

Designed to provide strong large-diameter piping systems connection, they function at up to 650 psi / 4500-kPA and are on the market in 26, 28, 30, 32, and 36-in. sizes (650, 700, 750, 800, 900 mm). Styles are available in silicone gaskets for various chemical services; EPDM for water operations.

Styles 207 and 277 extend piping system life by maintaining full pipe-wall thickness and a smooth flow path. A specially designed ring is butt welded to the end of the pipe and the coupling assembled on the ring to complete the joint. Full couplings data are free.

9 **Victaulic**
4901 Kesslersville Road, Easton PA 18040

Thermal sound blankets for engine, machine components

HeatBlocker Type "S" thermal sound insulation is newly introduced as an ultra performance design, integrated sound barrier for diesel and natural gas engines, exhaust systems, hydraulic pumps, and drive train components.

These sound barrier blankets withstand up to 1,800°F. and 982°C. as they lower machine sound levels in their normal work environment.

HeatBlocker Type "S" kits utilize state-of-the-art design technology and ultra-high-temperature-and-sound-attenuation materials. These deliver required durability. Each component is custom engineered to install, remove, and replace quickly — both in the field and on the assembly line. Full insulation specifics are free.

6 **Kalb Corporation**
521 West Matthews Court, Oneida IL 61467-9586

Enclosures benefit from new fire suppression generators

AERO-K Thermal Generators are now on the market. They are heat-activated, aerosol, waterless **fire suppression generators**. They operate independently without need to install electronic fire control panels or monitoring systems.

Self-installed AERO-K is for use in small to mid-size enclosures. Due to fast response, low fire extinguishing concentration, and environmental safety characteristics, units may be employed in electronic cabinets, flammable liquid storage, data processing equipment, Haz-Mat storage, and switchgear enclosures.

AERO-Ks are practically maintenance free and have a 10-year shelf life. Further details are yours free.

8 **Peripheral Manufacturing Incorporated**
4775 Paris Street, Denver CO 80239

Compressor supersonic ejectors reduce hydrocarbon emissions

A new **compressor technology employs supersonic ejectors** to reduce hydrocarbon emissions. By reclaiming gases ordinarily vented into the atmosphere, the ejectors offer environmental benefits and enable facilities to operate more efficiently.

The tandem or two-stage ejector system captures gas leakage from a dry-gas seal at low pressure, then recompresses it to a pressure equivalent to the fuel gas pressure. Reclaiming these gases by injecting them into gas turbine fuel systems reduces hydrocarbon emissions to the atmosphere.

Ejectors are available as new equipment options and product upgrades for centrifugal compressors that compress hydrocarbon gases. They also work with any low-pressure, low-flow-rate vent streams and high-pressure applications. More ejectors and compressors data are free.

10 **Dresser-Rand Group Incorporated**
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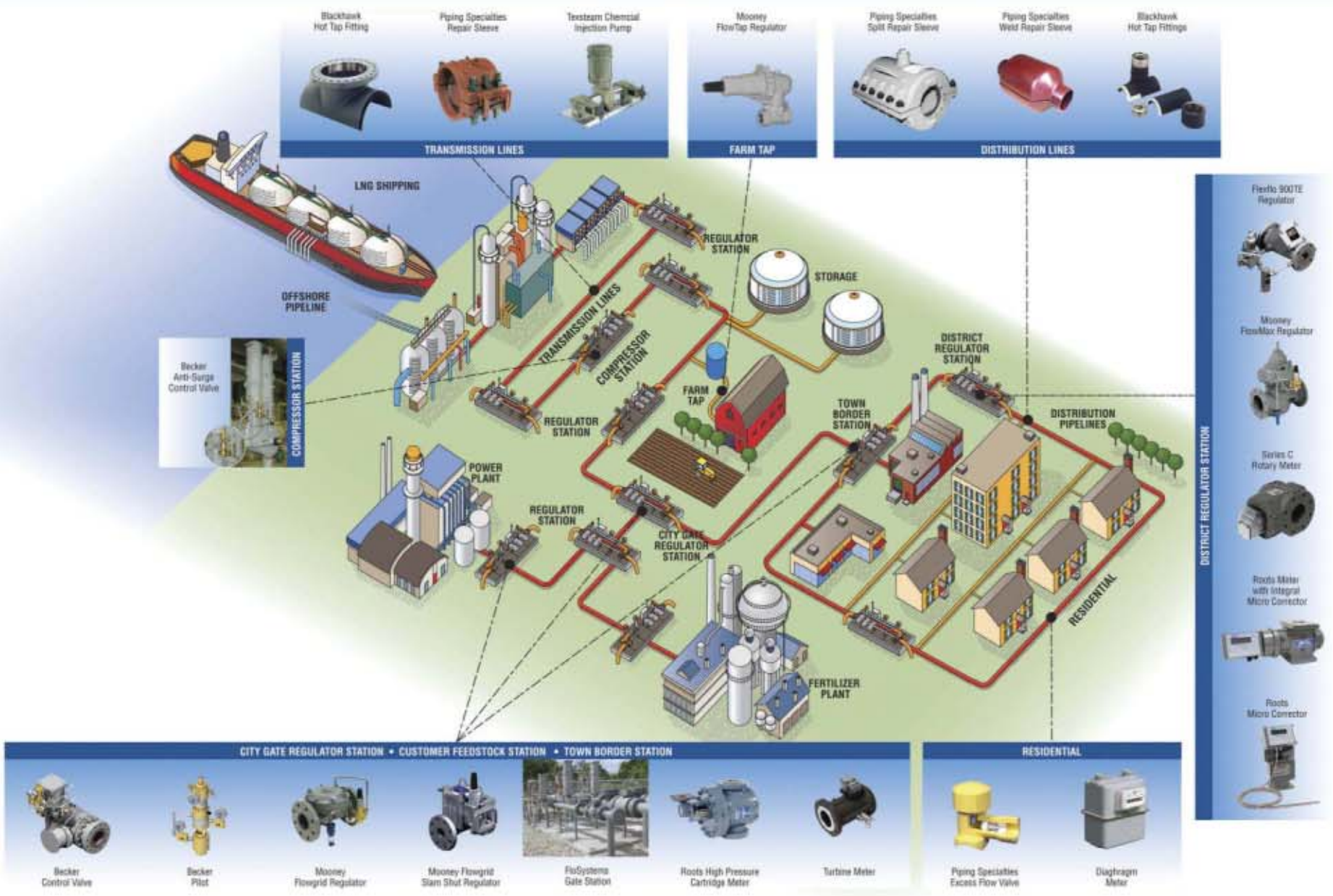

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FBE coating holiday detector

SPY 780 coating holiday detectors like this offer reliability and flexibility when fusion bonded epoxy or other thin coatings are inspected.

According to the manufacturer, no matter how fast an operator scans a pipe, the constant current provides a complete and continuous coverage over a 1,000 to 5,000-v spectrum. Even the smallest of FBE holidays can be detected and repaired, it's declared.

SPY 780 is light weight, self contained and offers the same ergonomic features as Model 785 (1,000 to 15,000 v) and 790 (5,000 to 35,000 v) pulse units. A built-in jeep meter reduces set-up time too.

Electrodes are available to inspect 2 to 60-in.-diameter pipe. Each coating inspector is packaged with two 8-hr batteries, charger electrode wand, and ground cable in a durable molded carrying case.

12 **Pipeline Inspection Company, Ltd.**
1919 Antoine, Houston TX 77055

New shaft alignment tools are laser-based and wireless

Fixturlaser UPAD shaft alignment tool is announced as "the first tool of its kind that is truly portable. The wireless display unit is worn on the arm; the user has hands free and can work in complete freedom."

Although small in size, the aligner delivers performance that ranges from advanced shaft alignment applications to geometric measurements.

UPAD's user interface guides the entire measurement and alignment process. It uses color-coded measurement values, icons, and arrows.

The instrument's angled box is equipped with a Velcro strap that keeps it in place on your arm. The display box has a 3.5-in. screen with VGA resolution of 640x480-pixels. The screen is both backlit and transreflective to deliver best possible visibility in poor light conditions as well as strong sunlight.

UPAD is based on CCD technology, which was recently awarded a Nobel prize.

Complete UPAD shaft alignment tool data are free.

13 **Elos Fixturlaser AB**
Box 7, SE-431, 21 Mölndal Sweden

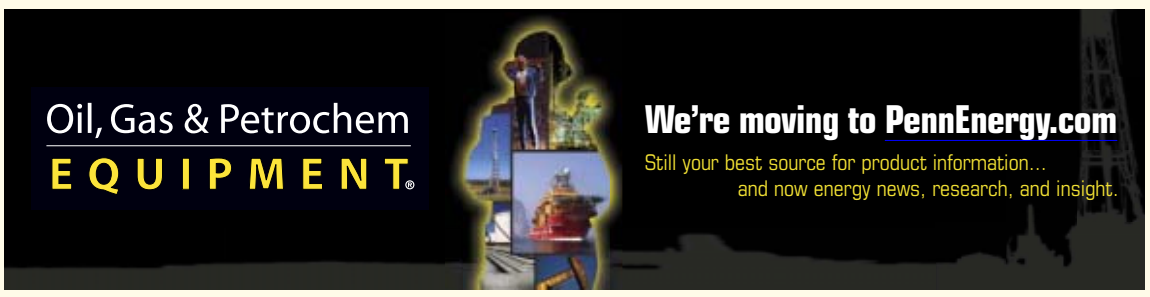
Handheld pressure calibrators

JOFRA HPC500 and HPC502 are a newly introduced generation of **handheld pressure calibrators**.

Each combine deadweight tester accuracy "in a modern digital package with a host of user friendly capabilities," declares the manufacturer.

Both offer such features as user-configurable information display, 15 different pressure units, transmitter supply, mA input, percent error calculation, voltage measurement, serial communication, and external pressure module capability. Each unit is available as an independent calibrator or in one of six ready-for-test systems that are complete and equipped to meet any pressure calibration need. Both instruments are suited for broadly ranging applications from simple tool type jobs to complex calibration applications in custody transfer systems.

14 **AMETEK Calibration Instruments**
8600 Somerset Drive, Largo FL 33223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AMETEK Grabner Instruments' newest execution of its MINIVAP automatic vapor pressure tester line, called the VPXpert, can, in a single measurement, provide complete, precise results for all vapor pressure standards, including RVPE, DVPE, ASVP (P_{tot}), AVP (P_{abs}), and P_{gas}. The unit offers single-point, stepped or ramped temperature profiles, a temperature range of 0°C-120°C, a pressure range of 0-1,000 kPa, and a volume-to-liquid ratio range of 0.02:1 to 4:1. Results are available in five minutes. The VPXpert features maintenance-free piston drive and measuring cell, a large, durable display and housing designed to withstand outdoor environments. With optional 12V car adaptor, the unit is easily portable, yet it includes a shaker for crude oil samples, automated sample rinsing and enhanced dual-USB connectivity. Innovative sampling technology and a high-quality valve design minimize the risk of cross-contamination between different sample types. Intuitive menu navigation and enhanced report generation make the Grabner VPXpert easy to operate. AMETEK Grabner Instruments. Tel: +43-1-282 16 27-0 **www.grabner-instruments.com** 423

AUTOMATED ONLINE ANALYSIS OF HYDROCARBON DEW POINT

The Model 241 CE II provides accurate, reliable, continuous online measurement of hydrocarbon dew points, using two-surface chilled mirror technology and proprietary 3-stage sample filter to protect the system from contaminants and lower maintenance requirements. Advanced performance rejects nonhydrocarbon (i.e., water) dew points. Designed for unattended operation, the unit uses a thermoelectric cooler to precisely control temperature, typically to 60°C below ambient temperature at the analyzer. Electricity is the only consumable, and the unit is CSA- and ATEX-certified for use in hazardous areas using an EExd (flameproof) enclosure. Output is 4-20mA, maximum working pressure is 2000 psi (13.79 MPa), typical flow is 2-10 scfh (1-5 Nl/min) and digital communication is via Modbus RTU protocol. AMETEK Process Instruments. Tel: 302-456-4400. Fax: 302-456-4444. **www.ametekpi.com** 424

RUGGED, PORTABLE DEW POINT TESTER MAKES REPEATABLE RESULTS EASY AT NATURAL GAS WELL HEADS OR ALONG THE PIPELINE

The Chanscope II dew point tester is so easy to use, operator accuracy and repeatability far exceed other manual dew point testers. The Chanscope II provides a lighted, magnified viewing chamber and platinum RTD temperature measurement superimposed on the viewing window above the mirror for easy data capture. Whether determining water dew point or hydrocarbon dew points in natural gas, or measuring dew points in other gases, the Chanscope II offers temperature ranges from -200°C (-148°F) to ambient, pressures to 5000 psi (34.6MPa), and a digital temperature display in tenths of a degree. A button-hold feature can retain measured value to further simplify data capture and operator accuracy. AMETEK Process Instruments, Chandler Engineering. Tel: 800-222-6789 or 302-456-4400. Fax: 302-456-4444. **www.ametekpi.com** 425

ALL-WELDED PROCESS GAUGE–SEAL COMBINATION OFFERS ECONOMY, RELIABILITY

New U.S. Gauge all-welded process gauge plus integrated seal offers lower cost than gauge and seal purchased separately. In addition, the combination unit reduces the number of potential leak paths, increasing field reliability. The rugged Model XR-81 gauge with PET case and Type 316L stainless steel socket and seamless Bourbon tube is mounted and welded onto an M&G diaphragm seal, available with either Type 316L stainless or Hastelloy® C wetted parts. offered in 15 ranges, from 0–30" Hg vac. to 0–5000 psi. AMETEK U.S. Gauge. Tel: 215-355-6900. Fax: 215-354-1802. **www.ametekusg.com** 426

EXPLOSION-PROOF MAGNETOSTRICTIVE LEVEL SENSOR WITH MODBUS® RTU OUTPUT

The Drexelbrook DM231 magnetostrictive liquid-level sensor meets all FM, CSA, ATEX and CE approvals for Class 1, Division 1, Zone 1 Explosion-Proof environments. The unit uses multiple, high-accuracy floats to measure total level, interface level, and temperature simultaneously. A Modbus® RTU digital communications output (with optional analog converter) transmits readings with ±0.01% accuracy. The DM231 requires no calibration, is easy to install and requires minimal maintenance. This highly accurate sensor is also backed by AMETEK Drexelbrook's nearly 50 years of level measurement expertise. AMETEK Drexelbrook. Tel: 800-334-2748 or 215-674-1234. **www.drexelbrook.com** 427

HOW WOULD YOU RATHER ACCESS REMOTE GAS LINES TO MEASURE MOISTURE CONTENT?

ON FOOT. ONLINE.

New AMETEK 5100 NCM™ laser analyzer combines integrated moisture verification with Ethernet-based user interface.

AMETEK's dependable 5100 NCM noncontact moisture analyzer for natural gas applications has all the convenience, performance and features you demand. Moisture reading verification, combined with its Ethernet/Web browser-based interface, eliminates your need to be on-site at all! The 5100 NCM features all-digital signal processing and an accuracy to ±4 ppm over a 5-2500 ppm range, with a 0.25 lb./MMscf limit of detection. It meets CL1 DIV 2 Groups A-D approvals*.

With simple analyzer setup and system checks, the 5100 NCM provides readout information anywhere it's needed, reliably and online—no complex software required. Remote readouts and diagnostics lower maintenance costs and reduce downtime. With no exposed components and an IP-65/NEMA 4 weatherproof enclosure designed to endure -20°C to +50°C, it's rugged as all outdoors.

So rest your feet, and leave the rest to AMETEK. Learn more at: 412-828-9040 or www.ametekpi.com 428

*Other approvals pending.

AMETEK®
PROCESS INSTRUMENTS

PRODUCT INFO ... NOW! GO TO OGPE.COM

Profile wire screen products data

Industrial, processing and water, waste filtration, and separation are served by **profile wire screen products** highlighted in this free six-page brochure.

It presents wedge wire industrial screens to be a series of parallel "V" shape cold drawn wire that is cold wound welded on perpendicular support rods. They are emphasized to produce a smooth structurally sound plug-resistant screen surface.

Complete specifications are provided along with manufacturing capabilities. Because most profile wire screen products are built to performance or customer specifications, this manufacturing provides complete engineering support and assistance.

For replacement or retrofit applications, company engineers can often improve performance for customers, it's noted.

250 **AMISTCO Separation Products**
23147 Highway 6, Alvin TX 77511

Oil spill, leak detection, alarm

Slick Sleuth Oil Spill Detection & Alarm Systems deliver immediate detection, early warning alert, containment, and prevention of accidental spills. They detect oil on water, dry concrete, or ground surfaces.

This systems' optical sensor detects small amounts of oil. It can be configured to automatically shut off pumps or valves, activate alarms, and provide remote alert notification, declares the maker.

Slick Sleuth serves in numerous petroleum-related settings and applications. It is highly sensitive to detect crude, turbine, lube, hydraulic, fuel, and most other hydrocarbon derivatives. It mounts above target surface.

16 **InterOcean Systems Incorporated, Environmental Systems Division**
4241 Ponderosa Avenue, San Diego CA 92123

Heavy-duty lubricants offered to lower equipment operating costs

Total Heavy Duty Lubricants span a range of products for construction, trucking, and fleets — subject to adverse high temperatures, heavy loads, and dirt.

They are formulated to lower operating costs. FE 10W-30 motor oil and XRD FE 75W90 transmission oil reportedly offer fuel economy technology for major savings. Along with their maker's Fluid Analysis program (ANAC) this company helps increase equipment life.

Every heavy-duty lubricant product is extensively field tested and approved by major original equipment manufacturers worldwide, it's noted.

Complete lubricants information is yours free.

17 **Total Lubricants USA Incorporated**
400 Chisholm Place, Suite 418, Plano TX 75075

Temperature, humidity, dew point dataloggers

New **OM-EL-USB-2-LCD standalone dataloggers** comprise a high-contrast LCD that shows a variety of temperature and humidity information.

With this instrument you can cycle between current readings along with maximum and minimum stored temperature and humidity values. It offers immediate, delayed, and push-to-start logging. Plus, logging and alarm status are shown using two high-intensity LEDs.

Full datalogger specifics are yours free for the asking.

18 **OMEGA Engineering Incorporated**
One Omega Drive, Stamford CT 06907

Check our new site
pennenergy.com

Same all-products information and much more news, energy, and research data: ogpe.com now at pennenergy.com
All Products — All The Time

Faster fastener updates offered

USM-3 Ultrasonic Bolt Meters now offer capacity for even faster updates of fastener elongation and load than previously available, it's announced.

It's designed to help collect and analyze data on torque or torque + angle and the relationship to bolt load over time. USM-3 measures elongation and load of a tightened bolt — rather than friction-biased torques.

This instrument reads elongation and load in almost any size bolt of any material. It uploads resulting data to Windows PCs. This fast update ability permits handheld USM-3 to more rapidly determine bolt load or elongation with lab data recorders and while actually tightening with powered tools, notes the manufacturer.

19 **Norbar U.S.A. Incorporated**
36400 Biltmore Place, Willoughby OH 44094

New 2-in. regulator maintains gas, liquid pilot-operated valve

Newly introduced **2-in. Mooney Flowgrid AC Port regulators** maintain pilot-operated valves in both gas and liquid applications.

They are designed to meet and in most cases exceed flow capacity of other 2-in. regulator models, according to the manufacturer. Engineered to be used in conjunction with a self-contained pilot control system, this valve combines a 2-in. body with a 3-in. port. This provides a 1970 Cg value.

Mooney Flowgrid is especially suited for skid mounted, vault, and enclosure installations. It is bidirectional and has full ANSI rating on both inlet and outlet (CL 150, 300, 600).

The same Flowgrid top entry and minimal parts were considered in the ease-of-maintenance design.

20 **Dresser Incorporated**
16240 Port Northwest Drive, Houston TX 77041

Programmable
Electronic Vibration Switch
Configure the PRO Switch to meet all your monitoring needs
Accepts most accelerometers or velocity inputs
4-20 mA powered output
Features self-test diagnostics to validate for input power voltage, OK sensor and full-scale range
User friendly USB or optional keypad: Program Trip Settings, Reset Alarms, Configuration Mode, Diagnostic and Measurement Mode
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Contact us for more information
www.metrix1.com or call 281-940-1802
METRIX
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MRO special report

Low-hp engine air/fuel ratio control

EPC-50 air/fuel ratio controllers are on the market for low-horsepower, carbureted natural gas-fueled engines.

It employs microprocessor technology for high-level control, easy configuration, and diagnostics. This controller and associated small engine-specific control valves are designed for use on engines operating at or near a stoichiometric air/fuel ratio. They are especially suited for application with three-way catalytic converters.

Single control output allows for EPC-50's use on any engine application incorporating a single fuel gas regulator. An oxygen sensor is used in the exhaust stream to sense O_2 content. A thermocouple input signals when proper exhaust temperature has been reached to allow for accurate sensor operation. Full air/fuel ratio controller data are free.

22 **Altronic Incorporated, Hoerbiger**
712 Trumbull Avenue, Girard OH 44420

Hazardous site portable flood lights

Flexible and portable illumination is delivered in hazardous locations by newly announced **Woodhead flood lights** like this.

Besides portability, models are designed for easy re-lamp and re-wire. They comprise two 300-w halogen lamps that don't heat the enclosure above 160°C. Also included is a rubber (SOW) cordset and hazardous location plug.

Woodhead flood lights are Class 1, Div. 1-rated for use in petrochemical plants, refineries, natural gas service utility locations, or fuel oil loading docks.

Units are CSA approved and compliant with USA and Canadian standards for methane atmospheres. This enables illumination delivery at worksites where natural gas leaks may occur during repair or maintenance projects.

23 **Molex**
2222 Wellington Court, Lisle IL 60532-1682

Energy casualty coverage added to company's global risk underwriting

This organization has added a dedicated **Energy Casualty Business Division** to its Global Energy unit. It will now **underwrite comprehensive casualty coverages on commercial risks** across virtually all classes within the energy sector.

They will provide up to $10-million in capacity targeted to lead umbrella and excess layers. The Energy Casualty business will underwrite all traditional energy classes of business including, but not limited to oil and gas, power generation, and utilities. Additional energy casualty information is free upon request.

24 **Ironshore Incorporated**
12 Church Street, Suite 608, Hamilton HM 11 Bermuda

Fire, oil-resistant piping introduced

ELASTOPIPE is unveiled as an upgraded fire and oil-resistant hydrocarbons transporter.

It incorporates a specially developed polymer-based lining material for "exceptional resistance against hydrocarbons, and achieving a 30-year lifetime performance," according to the manufacturer.

ELASTOPIPE's advantages over conventional rigid pipe have placed it in seawater-based deluge and sprinkler systems for corrosion-free, fire-resistant service with minimal maintenance.

Lighter weight suits the piping systems for fixed and floating platforms for transfer to and from support vessels as well as onshore oil and gas installations. ELASTOPIPE is also suited for H_2S ventilation lines, produced water, or open and closed drains. Full piping data are offered free.

25 **Trelleborg AB**
Box 153, 231 22 Trelleborg Sweden

Portable waste water processing

Cascade Waste Water Systems are offered as a portable disposal solutions for oil and gas operations. They are declared by their maker to reduce liability, cost, environmental impact, and contamination.

CWWS allows companies that use water to retrieve contaminates including hydrocarbons — before disposal. Contaminated water is filtered through the system to remove hydrocarbons, NORMS, and detergents. Once water has traveled through this system, remaining product is left clean and ready for reuse — via CWWS 99.7% hydrocarbon removal rate.

Hydrocarbon-contaminated surface water can be recovered at up to 7.7 tons/hour (7 metric tons) rates.

CWWS combines several different technologies and is controlled by a fully automated PLC system.

26 **Tangent Environmental Technologies**
Bay A, 1007 55th Avenue NE, Calgary, Alta. Canada T2E 6W1

Operator console recorder software module is exact when event occurs

You can automatically and precisely record images being shown on multiple HMI or SCADA operator displays with this newly announced **Operator's Console Recorder**.

The software module takes its signals directly from each HMI screen's video software drive. It records actual video being sent to the HMI. The software accommodates video signals from an unlimited number of HMIs to show what operators were watching at the time of an event, alarm, or process upset.

Video images can be combined with automatic data mapping capability of the maker's Video Historian so the recorder can automatically retrieve and replay operator displays by clicking on a time-based alarm or system message.

Videos used for plant activities monitoring can also be combined with operator console videos and data from a process historian. This enables engineers, analysts, or investigators to see what was happening in the plant, what the operator saw on the HMI screen, and all relevant real-time data occurred at the time of an event, alarm, or process upset.

27 **Longwatch Incorporated**
520 Providence Highway, Norwood MA 02062

Oil, Gas & Petrochem
EQUIPMENT
We're moving to PennEnergy.com
Still your best source for product information...
and now energy news, research, and insight.

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FIELD-INSTALLED
SUCKER ROD GUIDES/
PARAFFIN SCRAPERS
Full-circle Wiping of Tubing I.D.
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More Fluid Flow-by Volume
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Positive Wear Indicators
Amodel or Nylon with Glass Fill
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(1-800-537-9327) OR YOUR
Oilfield Supply Store
www.rodguides.com
Oilfield Improvements, Inc.
433
1902 N. Yellowood Ave.
Broken Arrow, Oklahoma 74012 U.S.A.
PHO 918-250-5584 • FAX 918-250-4666

Testimonial:
Roller Guides From Oilfield Improvements
The roller guides have saved us thousands of dollars in repair bills on our deviated wellbores. We now use roller guides on virtually every pumping well since we know they reduce our overall tubing leak and rod part problems.
Every new pumping well gets at least 3 to 4 roller guides on the initial installation and we are delighted with the long runs we get from the product. The roller guides are a "for real" down hole improvement. We highly recommend the use of roller guides.
Sincerely
Doug Faulkner
Faulkner Corporation Exploration and Production
Enid, Oklahoma
www.faulknercorp.com

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Becker products provide ZERO BLEED with unsurpassed emission reducing technologies in control valves, actuators, and valve regulators for flow control applications. Our products:

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- Reduce leak service calls
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- Decrease loss and unaccounted for gas

See what this can mean for your operations.
Try our Zero Bleed cost savings calculator at
www.dresser.com/becker

Digital Natural Gas Positioner | VRP-Pilots | T-Ball Control Valves | V-Max Control Ball Valve | Globe Valve Regulator

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Save Green Go Green with ZERO BLEED products from Becker.

Dorsal-impact-reducing gloves

ProFlex 925 dorsal-impact-reducing trade gloves are now on the market.

They deliver impact protection, durability, abrasion resistance, and grip to workers in demanding, difficult environments.

ProFlex 925 comprises specially designed TPR armor and 5-mm EVA foam padding. These features deliver protection to vulnerable hand areas while arm "flex zones" maintain dexterity, the manufacturer emphasizes.

Protection, toughness, and grip security are assured by generous Kevlar and PVC zones on the palm and fingers — combined with reinforced Kevlar stitching.

Complete gloves specifics are yours free on request.

29 **Ergodyne,** 1021 Bandana Boulevard East, Suite 220 St. Paul MN 55108

Intelligent video surveillance camera for outdoors unveiled

SightSensor WideView video surveillance cameras have been brought out. They are intelligent designs for wide-area monitoring in all weather conditions.

Models create a security buffer zone alongside tank farms, entrances, or buildings that require close-in, wide-area safeguard. They deliver intrusion detection over a 105° field-of-view to help secure large outdoor areas near facilities or other critical assets.

Among SightSensor WideView features are geo-positioning and automated PTZ intrusions tracking. Multiple built-in digital signal processors are incorporated within a nitrogen-purged enclosure. These help withstand outdoor environments.

In typical deployment, the cameras detect a pedestrian-size intrusion over an area approximately 60-m wide and 40-m distant.

Full SightSensor WideView details are yours free.

30 **SightLogix Incorporated**
745 Alexander Road, Princeton NJ 08540

Mechanically cleaned strainers

Magnetically coupled, mechanically cleaned **MCS Strainers** help conserve valuable process fluids in high-flow filtration of fresh water and water-like liquids.

They're announced to protect upstream and downstream process equipment from debris.

Patented strainer design offers minimal purge volumes in industrial fresh water applications. It helps save on make-up liquids, chemical treatment, and heating energy costs.

MCS handles 500 to 12,000 gpm. It's designed for easy inline installation and delivers continuous operation. It is also eco-friendly (no bags to purchase, change, landfill) and available in optional ASME Code and CRN designs. Additional strainer details are yours free.

31 **Eaton Corporation, Filtration Division**
70 Wood Avenue South, NJ 08830

In November:
Midstream

The newest equipment, products, systems, and services for Processing OG&PE: All products. All The Time.

ISA Expo 2009 exhibitor highlights

OG&PE recently exhibited at and covered ISA Expo in Houston.

Here are equipment, product, system, and service highlights from a sampling of exhibitors.

For free information and/or literature, go to ogpe.com Click Free Product Info Now and make your requests for fast response.

New gas detection products

GEN² gas detection products are newly introduced and the subject of this free six-page brochure.

It illustrates, describes, and specifies the new line to include **wired sensor units** that are EC, IR, or CB ambient designs for various gases. They come standard with 4-20 mA and RS-485 Modbus communications.

Battery-powered sensor units are presented as self contained EC-based ambient configurations that use their manufacturer's WireFree GenII RF protocol. They sense H_2S, O_2, CL_2, H_2, NH_3, CO, F_2, HF, and more, it's noted.

OI-7010 32-channel monitors are highlighted as compatible with all WireFree sensor units. They feature last four addresses configurable for 4-20mA in. Backwards compatibility is offered with original WireFree sensor units and the new GenII WireFree sensor units (configurable).

OI-520 calibration stations round out the new gas detection products line. They are precision gas blenders that simplify calibration of air quality instruments. OI-520 blends a wide range of calibration gas levels from a single cylinder.

251 **Otis Instruments Incorporated**
2200 East Villa Maria Drive, Bryan TX 77802

Magnetically coupled liquid level indicators data

Atlas, Aurora & Gemini magnetically coupled liquid level indicators are presented in this free 28-page catalog.

All are specified, illustrated, and described for widespread processing applications in both new construction and plant expansion. These include storage tanks, alkylation units, oil-water separators, hot wells, and vacuum tower bottoms. They also replace high-maintenance sight and gage glasses to eliminate vapor or liquid emission problems common to those designs, it's noted. The three MLIs feature totally sealed chambers that require no periodic maintenance.

252 **Orion Instruments, Magnetrol Company**
6646 Complex Drive, Baton Rouge LA 70809

New universal gas transmitters with advanced detection technology

XNX universal gas transmitters are new — employing a full range of their maker's toxic and flammable gas sensing technologies — including catalytic bead, electrochemical, and infrared. Models also work with all major industrial communication protocols including HART (standard) and Modbus (optional).

They are announced for wide ranging petroleum applications including petrochemical, exploration, drilling and production, oil and gas terminals, or refineries. There they are engineered to protect personnel, property, and the environment from toxic and combustible gases.

XNX also saves time and money on installation, maintenance, and operation via simple-to-use, low-upkeep platform that works with other safety equipment on a digital bus system, including Searchline Excel, Optima, and other gas transmitters. Complete universal gas transmitters data are yours free upon request.

33 **Honeywell Analytics**
405 Barclay Boulevard, Lincolnshire IL 60069

4, 10-year batteries now in UPS

SSG Series industrial-grade UPS Plus uninterruptible power systems now have long-life batteries.

Rated 10 years (in a temperature-controlled environment up to 25°C.), the new batteries are for use at up to 50°C. For extreme environments they are rated to 4 years at 50°C. — reportedly four times longer than standard batteries.

SSG is able to shield the battery from heat for longer battery life. This also provides the ability to lower the UPS maintenance cycle for time, money, and manpower savings.

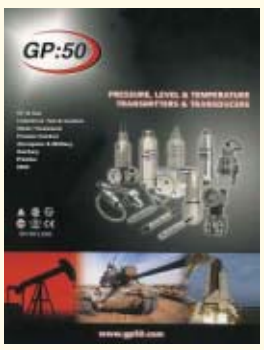
SSG UPS comes in models from 1.5 to 3kVa and in both 120 and 230-v ac versions. Models are able to withstand elevated temperatures up to 131°F./55°C.

Additional UPS information is yours free.

34 **Falcon Electric**
5106 Azusa Canyon Road, Irwindale CA 91706

Transmitters & transducers data

Oil and gas-applicable **pressure, level, and temperature transmitters and transducers** highlight this free eight-page brochure.



More than 20 instrument designs are illustrated and described as to model, applications, features, ranges, accuracies, output, pressure port, and wetted material.

Six oil and gas-applicable designs are presented for well servicing, fracturing, cementing, acidizing, nitrogen pumping, and coil tubing duties. Other transmitter and transducer designs are cited for subsea wellhead, BOP control systems, subsea system pressure and level, transmission and triplex pumps, as well as high-pressure BOP systems applications.

253 **GP: 50**
2770 Long Road, Grand Island NY 14072

Wireless toxic-gas monitoring

Three enhancements to **MeshGuard wireless, toxic-gas monitoring systems** are newly introduced.

New **MeshGuard LEL** provides flammability or lower explosive limit monitoring for methane or other flammable exploration and drilling gases.

MeshGuard Sulfur Dioxide delivers real-time drilling and production site detection where SO_2 is a byproduct.

The PowerPak battery is a high-capacity design that enables up to 2-year operation of MeshGuard monitors on a single charge.

The MeshGuard line of **toxic and flammable gas sensors** is used in environments where easy, fast deployment means faster time to revenue, according to the manufacturer. This includes harsh and potentially hazardous oil and gas drilling or production sites, liquid storage terminals, storage tanks, and plant maintenance turnaround.

Complete wireless toxic-gas monitoring data are free.

35 **RAE Systems**
3775 North First Street, San Jose CA 95134

Concentration, density, sound velocity measuring instruments

This free 12-page brochure describes and illustrates a broad range of **instruments for concentration, density, and sound velocity measurement** in processes.

More than 25 designs are showcased to include API petroleum, sulfuric acid, oleum, phase change, and density monitors.

Literature sections highlight measuring principles for each group of instruments, then cite features and applications data. A full-page specifications chart is provided.

254 **Anton Paar USA**
10215 Timber Ridge Drive, Ashland VA 23005

Managed edge switch unveiled

Magnum 6KL managed edge switch is introduced to bring fiber port configurability for managed networking capabilities all the way to the edge of industrial networks.

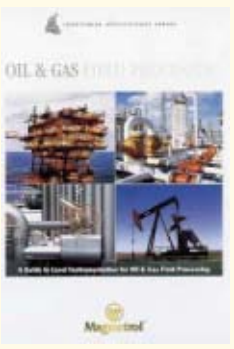
It is announced as the smallest industrial managed switch available. 6KL is a compact, environmentally sealed 10-port Ethernet switch with -40° to +85°C. range. It is applicable to surveillance and security, transportation, power utilities, and factory automation.

For use in harsh environments, the switch is packaged in a hardened, convection-cooled sealed metal box. It offers high EMI noise immunity.

Complete Magnum 6KL information is yours free.

36 **GarrettCom Incorporated**
47823 Westinghouse Drive, Fremont CA 94539

Oil, gas field processing level instrumentation



Yours free is this 12-page **Guide to Level Instrumentation for Oil and Gas Field Processing.**

In illustrated and application format, the guide highlights a broad range of field processes served by the level instrumentation. These include drilling fluid tanks, chemical injection skids, well stream separation, field storage tanks, water processing, crude dehydration, crude desalting, crude stabilization, vapor recovery, gas dehydration, sour gas treatment, natural gas liquids recovery, pumps and compressors, liquid and gas flow, tank blanketing, plus flare stacks and headers.

Among this instrumentation manufacturer's brands highlighted as integrally applicable to the processes: **Thermatel** thermal dispersion switches, **Eclipse** guided wave radar transmitters, **Atlas and Aurora** magnetic level indicators, and **Echotel** ultrasonic level switches.

255 **Magnetrol International**
5300 Belmont Road, Downers Grove IL 60515-4499

OUR TOUGH IS TOUGHER.

It takes a certain level of performance to stack up to tough industrial use day in and day out for more than a century — the highest. At Stanley® Proto®, that's all we've ever accepted because frankly that's all our customers find acceptable. You simply don't become one of the preferred tools in mines, generation plants, refineries, the oil patch, mechanic shops and heavy manufacturing by breaking down on the job.

What's more, you don't stay there by resting on your laurels. Over the decades, Stanley® Proto® has been in a continual state of innovation. We invented the combination wrench back in the day. We pioneered anti-slip technology and slimmer profiles for ease of use. Our torque wrenches can go tens of thousands of cycles without recalibration. You'll find that our tools are forged to meet or exceed ASME standards for durability, while sporting design features that help workers improve their productivity.

Call it rugged efficiency. It doesn't only apply to the tools with Proto® stamped in the handles. Blackhawk® by Proto® and Facom® also bear the mark of a century working in the world's toughest applications. Like Stanley® Proto®, they are proven, tough, dependable and durable.

Our preoccupation with reliability even rubs off on how we do business. At Stanley®, we strive to provide dependable service and delivery, whether you're buying a few sets of Blackhawk® by Proto® sockets or a thousand count of Proto® torque wrenches. We back our products with a rock solid lifetime guarantee. We do all we can to be there for you, to serve you as loyally as the tools you buy from us.

FOR MORE ON THE TOOLS WE SELL AND THE WAY WE DO BUSINESS, CONTACT US AT WWW.STANLEYPROTO.COM

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OIL ISN'T WORTH THE DIRT IT'S UNDER IF THE PUMPS DON'T WORK.

Proto's been working the oil patches of the world since the 1960's. We know that the more rugged the use, the more importance is placed on reliability. Reliable people. Reliable equipment. And reliable tools. That's why Proto® sockets, wrenches, and torque tools meet exacting standards and why you'll find the Proto brand in the demanding hands of pros working in the most demanding industrial applications, including oil fields around the world.

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Shown right: 3 - 7/16 inch, 6-Point Standard Length Impact Socket. Made from high alloy steel. Specially heat treated for the correct balance of strength and durability. Limited Lifetime Warranty.

439

Free guide: Gas detection and process stream monitors

Yours free is this new **2009 Product Selection Guide to gas detection systems and process stream monitors**.

It answers questions regarding fixed or wireless gas detection systems and process stream monitors as applicable in a variety of petroleum applications. These include petrochemical, refining, transportation and storage, custody transfer, or confined space monitoring.

A pipeline stream monitor is shown and described as a real-time design, single or dual-channel for H_2S, oxygen, CO_2, or other input stream conditioning. Custom monitors and full custom systems can be designed.

The gas detection systems are presented for toxic gas/oxygen, combustible gas, and combined toxic/O_2/combustible applications. Full attention is also given this manufacturer's wireless gas detection equipment.

257 **GDS Corporation**
2513 Highway 646, Santa Fe TX 77510

Solar power integrated systems

Solar power integration systems are presented in this free eight-page brochure for numerous applications.

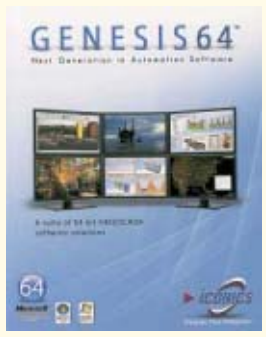
The solar, backup DC or AC, TEG, wind, gen set, and hybrid power designs are cited to serve SCADA, measurement, sensor and detection, communications, and automation applications.

The power solutions are shown in such applications as gas well monitoring, well logging, and custody transfer. The solar designs are Class I, Div. 2-certified.

Backup power integration designs are presented for refining and natural gas, pipeline monitoring and control, or redundant 24-v dc backup.

258 **Solarcraft Incorporated**
4007C Greenbriar Drive, Stafford TX 77477

64-bit HMI/SCADA automation software data



GENESIS64 Automation Software is declared in this free six-page brochure as "the next generation of HMI/SCADA visualization."

The automation solution is based on the convergence of 64-bit, multi-core, multi-processor computing; introduction of new 64-bit Microsoft operating systems; and demand for 64-bit native applications. It is cited to include several solutions that allow for connectivity from plant floor and building facilities to corporate business systems.

GENESIS64 takes advantage of OPC-UA, .NET managed code, and SharePoint technology. It allows plant operators and IT professionals to integrate real-time manufacturing and business information into a common, web-enabled visualization dashboard.

259 **ICONICS Incorporated**
100 Foxborough Boulevard, Foxborough MA 02035

Standalone gateways, wireless and industrial interfaces info

This free 44-page catalog highlights more than 25 **standalone gateways plus wireless and industrial interfaces**.

With graphs, charts, schematics, diagrams, charts, and photos — the literature presents standalone, DIN-rail mounted, industrial gateways with communication solutions between competitive PAC, DCS, and PLC systems.

The RadioLinx product line is also cited to provide a complete range of wireless choices including cellular, 900 MHz, 2.4 GHz, and 5.0-GHz; Ethernet and serial radios, frequency hopping and industrial broadband or water/dust-resistant options.

260 **ProSoft Technology Incorporated**
5201 Truxtun Avenue, 3rd Floor, Bakersfield CA 93309

2.4 GHz wireless module data

VersaNode 210 2.4 GHz wireless modules are declared in this free datasheet to be "the first commercially available module to run an implementation of the ISA100.11a standard."

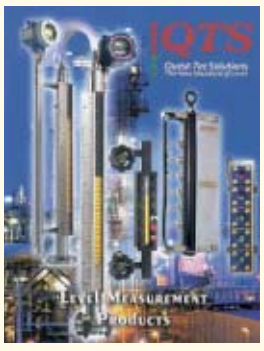
The module is also cited to support the WirelessHART stack on the same hardware (often referred to as Dual Boot). This flexibility allows you to minimize design, inventory, marketing, and training costs, it's noted.

VersaNode 210 utilizes the Freescale third-generation MC13224 platform which incorporates a complete, low power, 2.4 GHz radio frequency transceiver, 32-bit ARM7 core based MCU, hardware acceleration for both IEEE 802.15.4 MAC and AES security, plus a full set of MCU peripherals into a 99-pin LGA Platform-in-Package.

261 **Nivis**
1000 Circle 75 Parkway, Suite 300, Atlanta GA 30339

Level measurement products

Four series of **level measurement instruments** are described and illustrated in this free six-page brochure.



Glass-Trac liquid level gages feature an explosionproof-rated see-level illuminator.

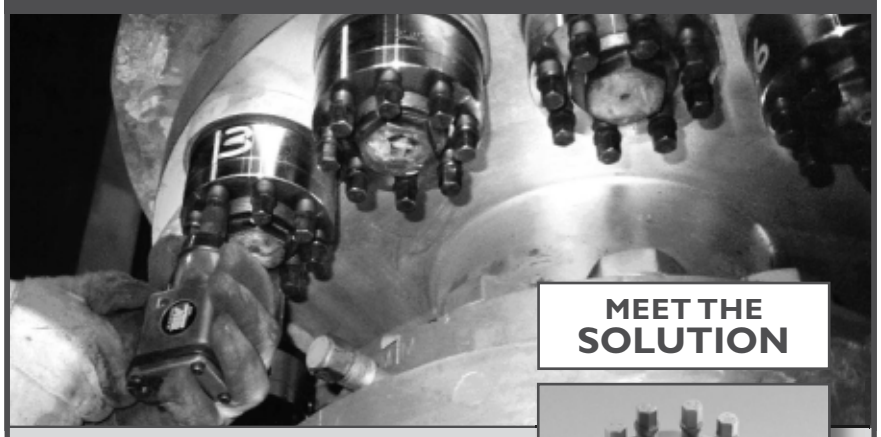
Magne-Trac magnetic level indicators and transmitters handle extreme pressure, temperature, vibration, and highly corrosive or hazardous material.

Level-Trac remote level indicator systems are probe manifold/water column designs in three series for service from 1,000 to 3,000 psi WSP.

Steam-Trac direct reading water gages feature cadmium-plated bolting, high-temperature paint, spring washers, high-quality mica shields, and stainless steel grafoil gaskets.

262 **QTS: Quest-Tec Solutions**
13960 South Wayside, Houston TX 77048

BOLTING PROBLEMS?



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442

Pump installs on 24-in. pipeline, transports 85,000 b/d at 2,000 psi

Production has commenced on what this manufacturer declares to be "the world's largest rotary positive displacement three-screw crude oil pump."

Imo 8L-912Y pump can be installed on 24-in.-diameter pipelines to transport more than 85,000 b/d at up to 2,000 psi. The positive displacement screw design is an alternative to centrifugal pumps at a reported 30% less operating cost.

8L pump delivers constant flow, even in the presence of varying system back pressures due to viscosity changes. It provides nonpulsating flow without need for pulsation dampeners. This eliminates stresses imposed on the pipeline system and reduces risk of pipeline failure, it's said.

Complete Imo 8L-912Y information is yours free.

38 **Colfax Americas**
Box 5020, Monroe NC 28111

Software integrates reservoir management, analysis, design

PEOffice PC/network-based software platform integrates oil and gas reservoir management, production analysis, and design.

It provides systematic computations and comprehensive analysis for reservoir model management, performance analysis, production problem diagnosis, optimized design of production parameters, and analysis of oil/gas gathering and transportation system. PEOffice can access such databases as Oracle, MS SQL Sever, Access, and data files (spreadsheets) — without data modifications.

39 **Optimization Petroleum Technologies Incorporated**
11111 Richmond, Suite 142, Houston TX 77082

Flame-resistant garment offered evaluation at website

KnowYourFR.com is a recently launched website to help **evaluate flame-resistant garments**. It is offered to raise awareness of relevant characteristics of FR fabrics and garments prior to making a purchase.

The website centers around a "Not All FR is Created Equal" video. It covers many aspects involved in evaluating flame-resistant fabric durability— from testing protocols to after-wash performance and shrinkage control. The video also encourages awareness of various properties involving the way a garment is manufactured. These properties can affect wear life, including product consistency, construction techniques, and pattern grading.

Although created as an informational platform by this company and Westex Inc., the video does not mention any brand names or promote either company's products.

40 **Workrite Uniform Company**
1701 North Lombard Street, Suite 200, Oxnard CA 93030

Coming in November

Midstream equipment, products, systems, & services. All things processing — in one magazine.
OG&PE — All Products

Natural gas vapor recovery system alternative aids ROI

VRSA: vapor recovery system alternative is new to provide a "quick return on operator's investment even with today's low natural gas prices," it's announced. It's engineered to effectively and reliably capture tank vapors.

This patent pending skid-mounted design monitors and controls the compressor, tank, and process to result in a virtual elimination of flaring and venting.

Over 10 systems have been operating for over a year without any mechanical problems, it's declared. Oxygen problems, compressor issues, frequent venting, flaring, and constant maintenance associated with earlier VRUs have been addressed and corrected in this design, it's noted. Complete VRSA specifics are yours free.

41 **Engineered Concepts LLC**
8718 Shelmer Drive, Houston TX 77080

Alkylated aromatic heat transfer fluid for gas processing offered

GLT heat transfer fluid is for gas processing because of its low-temperature properties since many of the systems are exposed to very cold outdoor temperatures.

GLT is an alkylated aromatic-based fluid for closed-loop liquid phase heating systems to 550°F. using fired heaters and 575°F. in waste-heat recovery systems. It is also applicable in liquid terminal tank heating and asphalt plants. When exposed to 600°F. for 500-hr, GTL exhibited almost 40% less degradation than widely used other formulations it's noted. Full GLT details are free.

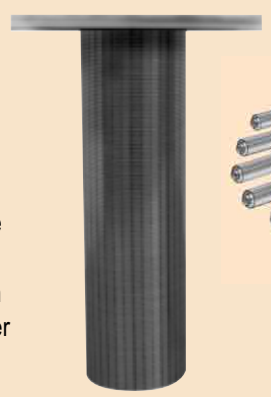
42 **Paratherm Corporation**
4 Portland Road, Conshohocken PA 19428

Profile Wire SCREEN PRODUCTS

For a wide range of industrial and process applications, AMISTCO Separation Products manufactures a complete line of Wedge Wire industrial screens constructed of a series of parallel "V" shaped rods welded on perpendicular support rods. The result is a smooth structurally sound plug resistant screen surface. We can engineer and manufacture a wide range of products.

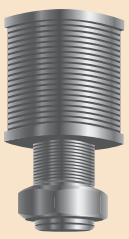
- Catalyst support grids
- Nozzles
- Distributors
- Hub laterals
- Inlet outlet baskets
- Basket strainers
- Header laterals
- Sieve screens
- Numerous standard and inverted flow filtration applications

Basket strainer

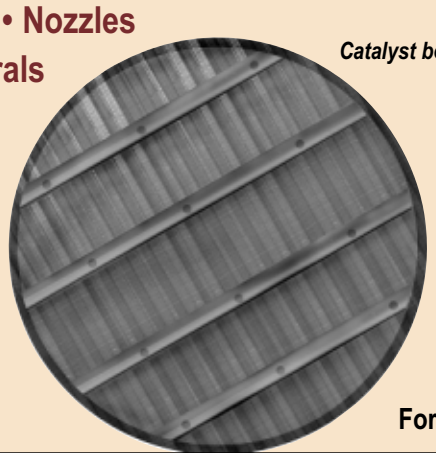


Header laterals

Nozzles



Catalyst bed support



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444

New hosted software manages gas detectors

iNet Control hosted software application manages gas detector fleets.

As part of this company's Gas Detection as a Service program, it provides visibility into gas detector alarms, maintenance, and usage. When events occur, iNet shows which gas detectors had an alarm, when the alarms happened, and where they happened. It also tells what the gas hazards were and how much gas was present.

These data show you if employees are at risk from exposure to harmful gases. It also helps identify and monitor high-risk areas. iNet as part of this comprehensive service, gives you visibility into gas detector maintenance — to help keep a program in top working order. Complete details are yours free for the asking.

44 **Industrial Scientific Corporation**
1001 Oakdale Road, Oakdale PA 15071

Wireless well, pipeline monitoring enabled by networking system

VNS: Viatran Networking System is introduced to enable centralized wireless sensors monitoring throughout gas or oil fields, or around any facility where measurement is critical.

VNS comprises Viatran Remote Device (VRD) and Viatran Hub (VHub). VRD gathers information from field sensors then wirelessly relays data to VHub. VHub serves as the communication link for up to 10 VRDs. Each VHub sends data to a flow computer, SCADA system, or Distributed Control System.

A free white paper is available at ogpe.com to describe remote monitoring solutions for upstream oil and gas facilities.

45 **Viatran, Dynisco Company**
300 Industrial Drive, Grand Island NY 14072

Multi-output electronic switch with display

PSW3000 high accuracy **electronic pressure switch** offers four switching outputs plus a 0 to 10-v dc or 4 to 20 mA dc analog output.

This instrument has an easy-to-read four-digit display that shows reading plus setpoint. A user-scalable bar graph is also standard.

PSW3000 is housed in an IP65-rated aluminum casting. Its' pressure ranges are 0 to 150 psi to 0 to 9,000 psi, which suits the switch for chemical applications.

46 **OMEGA Engineering Incorporated**
One Omega Drive, Stamford CT 06907

Turnkey solutions: prefabricated measurement, regulation stations

Dresser FloSystems designs and manufactures **measurement and regulation gate stations for gas distribution and transmission systems**.

The manufacturer's capabilities and engineering are for upstream or downstream cost-effective modular station sets. They declare themselves able to "significantly reduce installation costs, material costs, and eliminate labor costs associated with field welding, pipe cutting, beveling, threading, coating, and testing."

All Dresser FloSystems are custom-built to your specs and manufactured by the company's API-1104 and ASME Sect. IX-certified welders. Flange fittings, tubing, valves, meters, and regulators are all-inclusive and CAD drawings provided for your approval.

FloSystems engineers use 3-D computer modeling and analysis software. This permits review of the entire station design for potential component interference, clearance, and misalignment issues — prior to manufacturing.

To ensure trouble-free installation — complete radiographic and hydrostatic testing is performed at the factory prior to shipping. And this firm offers aftermarket service to stand behind every station delivered.

Complete Dresser FloSystems data are yours free.

47 **Dresser Piping Specialties, Dresser Incorporated**
41 Fisher Avenue, Bradford PA 16701

Deadline Extended!
October 30, 2009

OIL SANDS HEAVY OIL TECHNOLOGIES

Call for Abstracts – Deadline Extended

Expanding Sustainably

Growth requires the oil sands and heavy oil industry to make steady, long-term progress along a narrow road for which no map exists.

On one side loom the high costs of extracting, processing, and transporting unconventional hydrocarbons.

On the other side are environmental performance standards that toughen with time and that the industry never must fail to meet.

Each step along this road requires innovation. Each must withstand unpredictable economic changes. Each must uphold eternal values of nature and society.

On this road, the beacon for progress is technology, advances in which will control the costs, improve the environmental performance, and assure the sustainability of an industry crucial to oil supplies – now and in the future.

The Oil Sands and Heavy Oil Technologies Conference & Exhibition is the premier showcase for the knowledge and methods of this fascinating business.

Conference organizers are accepting 150–400-word abstracts for the 2010 event at www.oilsandstechologies.com

Abstracts should summarize a noncommercial, technical presentation offering practical solutions to the operating and environmental challenges facing oil sands operators, upgraders, and electricity providers.

Guidelines are available at www.OilSandsTechnologies.com.

Please submit a 150-400 word abstract by October 30, 2009.

For author guidelines and to submit your abstract online go to OilSandsTechnologies.com

For more information, contact:
Gail Killough
Conference Manager
Phone: +1 713 963 6251
Fax: +1 713 963 6201
gailk@pennwell.com

Abstracts are due by October 30, 2009.

Oil Sands and Heavy Oil Technologies Conference & Exhibition | July 20–22, 2010 | Calgary TELUS Convention | Centre, Calgary, Canada

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Drop-in replacement flow meters

SABRE turbine flow meters TW series are newly announced as specifically designed drop-in replacements for Halliburton/NuFlow, Blancett, and Cameron types.

The oil, gas, and produced-water-applicable meters are rugged. They feature an improved internal assembly for improved accuracies, more stable output signal, and reduced operating noise over other flow meters.

SABRE TW is available as a fully assembled meter or as a kit with internals only. Additional turbine flow meters data are yours free for the asking.

49 **AW-Lake Company**
8809 Industrial Drive, Franksville WI 53126

Chain chaser installs, recovers anchors from seabed

PCC Permanent Chain Chasers assist installation/recovery of anchors from the seabed.

Their manufacturer has used Finite Element Analysis to enhance PCC's chemical and mechanical properties. Made and tested 100% in the UK, each chaser is subjected to a proof test of 300 tons prior to being employed offshore. Additional information on the mooring-applicable PCCs is yours free upon request.

50 **InterMoor**
900 Threadneedle, Suite 300, Houston TX 77079

Dual PoE splitter/injector

Provide direct current power to multiple outdoor Power over Ethernet-equipped devices with this new **Dual PoE Splitter/Injector (PSI)**.

It is applicable on wireless access points, broadband wireless backhaul, and surveillance cameras.

PSI is offered as a complete system within an enclosure for pole-top applications, or as a sub-assembly component for OEM installation. Its' design allows two independent DC power sources to deliver from 0 to 60-v/PoE device. PSI can also be used to separate power from the PoE input to run a non-PoE device like an analog camera.

51 **Solis Energy**
927 Fern Street, Suite 1200, Altamonte Springs FL 32701

New pulse amplifiers out for magnetic-coil pickups, meters

New **pulse amplifiers** are for remote dc-powered environments. They operate -40° to +80°C. with supply voltages from 7 to 24-v dc. Neither is isolated: input, output, and power commons are internally connected.

JH376 is a compact DIN-rail mount device specifically for use with magnetic-coil pickups. Originally used for tachometers measuring speed of rotating drilling equipment, it is also well suited for turbine flowmeters.

JH377 is a two-channel Logic Pulse Converter that accepts contact closure or open-collector inputs. It converts them to 5-v logic pulses on flowmeters or tachometers having contact-closure outputs.

52 **JH Technology Incorporated**
4233 Clark Road, Unit 9, Sarasota FL 34233-2432

IS addressable indoor manual call points

MCP5A-IS intrinsically safe addressable indoor manual call points are on the market.

They are tested and approved by LPCB for use in Zone 1 hazardous areas. These devices enable manual initiation of an addressable fire alarm system. It implements from within a hazardous area where potentially explosive gases are occasionally present during normal operations. They're available to accommodate flush or surface mount and rated II 1G Ex ia IIC T4.

The device is powered from the loop in the normal way, with the loop entering the hazardous area through a suitably approved IS barrier. Complete IS addressable indoor manual call points information is yours free.

53 **KAC Alarm House,** KAC House, Thornhill Road
North Moons Moat, Redditch B98 9ND United Kingdom

Chemical-handling metal pneumatic pumps

CHEMICOR pneumatic diaphragm pumps are on the market to handle and transfer chemicals.

Key to the pump's performance, its' product chambers. It has been designed to meet sensitive needs of chemical handling due to soft contours, smooth flow channels, and absence of dead spaces.

CHEMICORs are available in three volume sizes: 75-lpm/20 gpm, 150-lpg/40 gpm, and 400-lpm/100 gpm. All pump components deliver chemical compatibility including stainless steel, precision-cast housing, as well as EPDM and PTFE diaphragms and ball valves. Additional CHEMICOR specifics are yours free.

54 **Almatec, Dover Corporation, Pump Solutions Group**
Carl-Friedrich-Gau Str 5, 47475 Kamp-Lintfort Germany

Thermo Scientific AutoPILOT PRO raises the bar. Again.

Introducing Thermo Scientific AutoPILOT PRO, the next-generation gas flow computer built on an innovative, field-tested technology platform by a company with a proven 40-year track record.

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- **It's versatile.** AutoPILOT PRO measures from 1 to 6 runs of natural gas with full station control.
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Thermo Scientific AutoPILOT PRO —
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Free 2010 Instruments, Controls Catalog

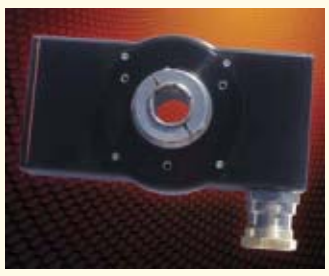
A complete range of **instrumentation and control products** highlight this new and free 600-page catalog.

It illustrates, describes, and specifies thousands of instruments to measure, transmit, or control pressure, flow, air velocity, level, temperature, or humidity.

Some 60 new products are also showcased. The literature includes prices, applications, product dimensions, and specifications. A digital CD catalog is also available with interactive features including keyword search.

264 **Dwyer Instruments Incorporated**
Box 373, Michigan City IN 46361-0373

Oilfield encoders for Zone 1 use



New incremental **EN series oilfield encoders** are for use in Zone 1 hazardous locations — without need for intrinsic safety barriers.

EN is designed to be "field-friendly," as a compact, easy to mount, easy to wire, reliable harsh-environment encoder.

It incorporates an increased safety interface to eliminate the need for external IS barriers to reduce system cost, simplify wiring, and provide for a more permanent installation. EN also uses encapsulated electronics to prevent unwanted component contact with flammable gases.

56 **Dynapar,** 1675 Delany Road, Gurnee IL 60031

Calibrator maximizes analyzer accuracies

Ensure confidence in Thermox oxygen and combustible analyzer accuracy with **Thermox Remote Calibration Units**.

They allow unattended, automatic calibration to minimize labor costs too. RCU's rugged stainless steel enclosure is fully weatherproof and corrosion resistant. It's made to replace existing units and compatible with new and existing WDG oxygen and combustible analyzers. Complete RCU details are yours free.

57 **AMETEK Process & Analytical Instruments**
150 Freeport Road, Pittsburgh PA 15238

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Mobile pre-, direct water treatment series available

Proteus mobile water treatment systems are now available.

They deliver pretreatment or direct treatment to seawater, brackish water, or permeate water in a broad range of applications including oil and gas, declares their manufacturer.

Proteus is designed to produce 1.9-MGD or 7200 m^3/d as four-vessel mobile containerized system, or as mobile skid-mounted single vessels for 475,000 g/d (1800 m^3/d). They may be used as modular blocks in series or parallel to increase product water quality or volume. Complete Proteus information is offered free.

58 **Ecolutia Services Ltd.**
102 Culley Court, Peterborough PE2 6WA United Kingdom

Head for internal laser cladding

iClad processing head for laser cladding of internal surfaces, is now available. It allows treating of diameters to 26 mm and up to 500-mm depth — so even blind bores can now be coated, alloyed, or annealed right into the angle. The new iClad head is for a range of laser sources. It connects with no problems to diode or Nd:YAG lasers.

59 **Pallas GmbH & Co. KG**
Adenauerstr. 17, Wuerselen D-52146 Germany

Gigabit Ethernet Switch offered

Industrial Gigabit Ethernet Switches are newly introduced as fully-managed aids to data transmission. They feature a Self-Healing Ring capability which is compatible with their maker's EOTec 2104 Industrial Ethernet Ring Switch (10/100 Mbps).

When a fiber or cable break is detected on any of the ring ports, the G408M re-routes network traffic in milliseconds. An alarm output, available on the terminal block, can be used to signal error conditions to a PLC or other supervisory devices.

These switches are certified for installation in Class 1, Div. 2, Groups A, B, C, and D as well as ATEX Group II, Cat. 3 (Zone 2), EEX na II T4 X hazardous areas.

60 **Ultra Electronics, NSPI** (formerly Weed Instrument)
707 Jeffrey Way, Round Rock TX 78664

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PRODUCT INFO ... NOW! GO TO OGPE.COM

New TDLAS portable gas analyzer

A portable version **Model 5100 gas analyzer** has been added to this company's product line.

The instrument is based on Tunable Diode Laser Absorption Spectroscopy to deliver outstanding analyte specificity, sensitivity, and measurement speed of response, it's announced.

This initial portable gas analyzer is configured to measure H_2O in natural gas, hydrocarbon gas streams, and bulk gases. Additional analytes will include O_2, CO_2, CO, and CH_4.

The hand-held, battery-powered devices provide approximately 8 hr of use before requiring recharge. Other features include compact fully enclosed optics, sample handling, on-board reference cell for laser line lock, and all-digital signal processing. Full 5100 data are free.

62 **AMETEK Process Instruments**
150 Freeport Road, Pittsburgh PA 15238

New, portable valve actuators

Easi-Drive portable valve actuators are for use in hazardous refinery areas. They allow single-worker operation without multiple dedicated valve actuators. They variably output 350 to 8,500-ft-lb torque and are adaptable as electric, battery, or pneumatic operable. Full details are free.

63 **Smith Flow Control Incorporated**
1390 Donaldson Road, Suite E, Erlanger KY 41018

New tank gauge sensor, display

Easy Tank gauge sensor and display are on the market for convenient level measurement. Based on patented technology, the new instruments install with 4-in. screw or flange connections for easy field replacement. They repair in-place via modular components. The explosion-proof or intrinsic safe-compliant systems exhibit accuracy within 0.15% of span over ranges from 0 to 3 through 0 to 66 ft.

64 **Levelese Incorporated**
326 Steele Street, Denver CO 80206

Read-only remote display units

Model RD-8X read-only remote display unit operates as a Modbus Master with a wide range of addressable control systems.

It polls-and-displays real-time status of up to 32 channels on a backlit LCD. Up to eight channels are displayed on the screen to reflect real-time data of corresponding field devices. The display can be programmed for auto-sequencing or manual display of each group of eight inputs. Display information includes channel number, gas type, unit of measure, and gas concentration. Two RD-8X versions are offered for nonhazardous/hazardous.

65 **Detcon Incorporated**
3200 Research Forest Drive, A-1, The Woodlands TX 77382

Reusable tethered vinyl caps

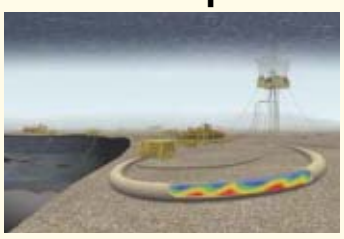
If you require caps that need to be removed and reused, these **tethered vinyl caps** are the answer.

Their tethered ends allow the cap to hang freely from the application when not in use. But the caps stay attached to the fitting so they are quick and easy to find.

These vinyl caps are protective covers for a variety of fittings, pipe ends, and threaded connectors. Their vinyl composition offers a snug fit and cushioning to safeguard against impact, damage, or contamination.

66 **Caplugs**
2150 Elmwood Avenue, Buffalo NY 14207

Multiphase flow simulation tools unveiled at Offshore Europe '09



LedaFlow multiphase flow simulation tools offer "vastly improved functionality, fidelity, flexibility, and accuracy." The recently unveiled engineering tool introduces step-change in multiphase flow assurance technology. It reduces risk and enhances performance.

Based more on physics than empirical data, LedaFlow provides 1D or quasi 3D simulation. It uses detailed three-dimensional physical modelling and has been validated against the best available, most comprehensive experimental data, it's declared.

67 **Kongsberg Oil & Gas Technologies**
Hamangskogen 60, N-1338 Sandvika Norway

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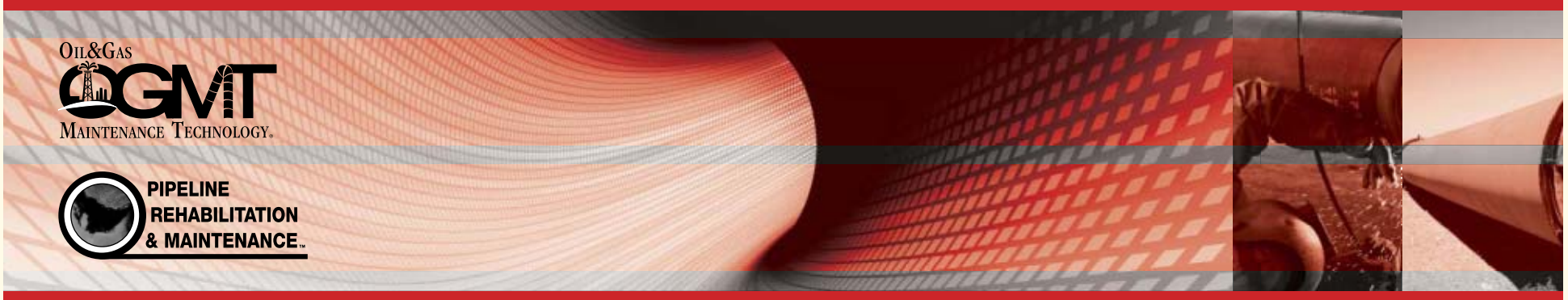

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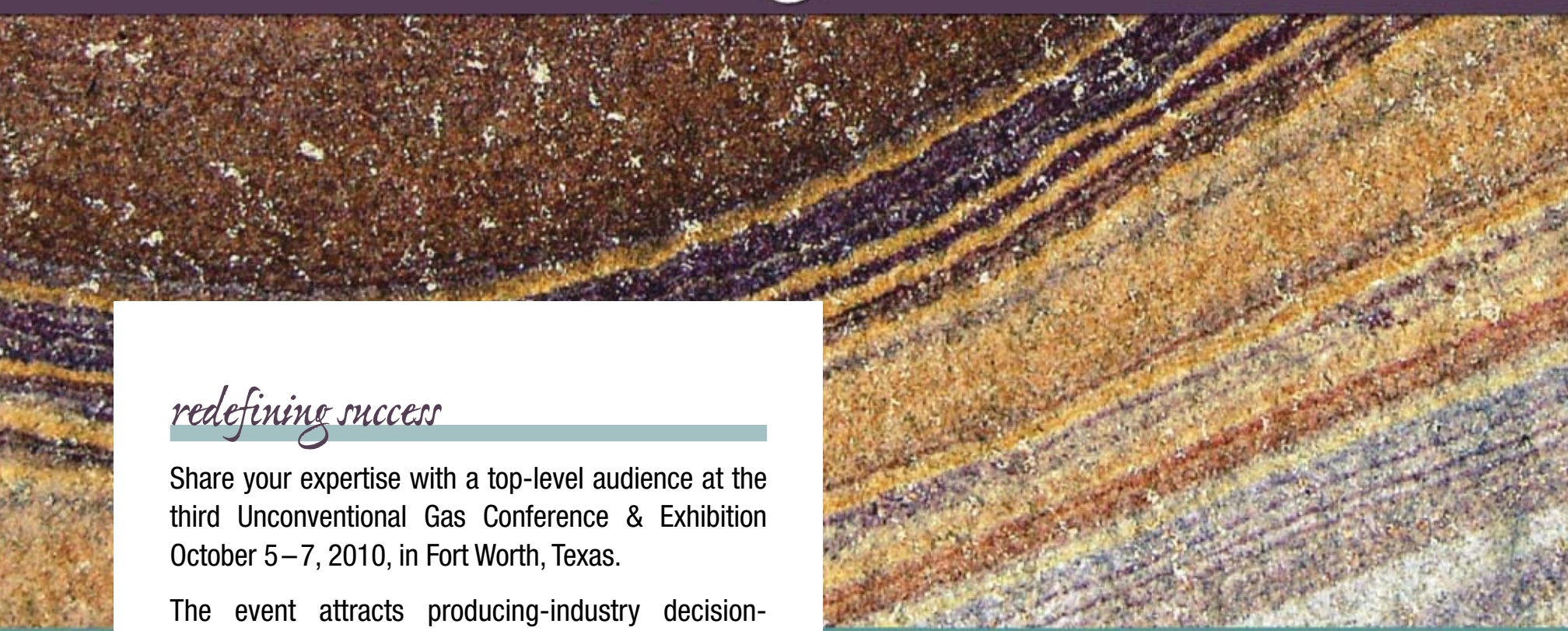

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Process measurement and control products, encyclopedia

Where do you go for **Process Measurement and Control products?** Omega.com and this company. A variety of **level transmitters and controllers** are available including two-wire liquid level float and non-contact loop-powered ultrasonic level. Non-contact ultrasonic level transmitters/switches are also on the market. **Portable fiber optic thermometers** are among new instrument styles offered as well as a full line of **positive-displacement flowmeters** plus **positive-displacement totalizers for oil flow**. "The fastest industrial" **fiber optic infrared temperature transmitters** with smallest spot size are also on the market. And, you can request a free copy of the hardbound 8th edition **THE GREEN BOOK: Flow, Level, and Environmental Handbook and Encyclopedia**.

69 **OMEGA Engineering Incorporated,** One Omega Drive, Stamford CT 06907-2390

Broadest monitoring, analytical instruments line available

LAND, Thermox and AMETEK offer the broadest line of **monitoring and analytical instruments.** Accurate, rugged, reliable models offer higher efficiency, lower emissions, and safety. Among monitoring and analytical specialties: **moisture analyzers** accurate for levels below 0.1 ppmv, **H_2S amine analyzers** that pay for themselves through reduced energy costs, and **cut monitors** with rugged in-line sensing elements to handle up to 1,500 psi and 450°F. Also on the market is new **MINIVAP VPXpert automatic vapor pressure testers** which outperform all known vapor pressure standards. **Sta-Kool thermal protectors** are also offered to extend gauge life in high-temperature environments. These complement **coal fire detection systems, emissions monitors, sulfuric acid monitors,** and a complete line of **oxygen, combustibles, methane, and fuel-rich-atmospheres analyzers**.

70 **AMETEK Process & Analytical Instruments,** 455 Corporate Boulevard, Newark DE 19702

Don't buy gas detectors . . . There's a better way

iNet is Gas Detection as a Service. It will keep you from buying gas detectors — and common gas detection problems related to understanding user manual warnings, not knowing what's happening in the field, supplier service delays, recordkeeping, and high, unpredictable costs. iNet's hosted software platform gives you a 360° gas detection view so you know what's happening: exposure and trend data, alarms, calibration, usage, and detector performance details. iNet delivers all the knowledge you need to take control of your gas detection program and save lives. Since gas detectors go into high alarm every 10 days on average — iNet's guaranteed value is essential.

71 **Industrial Scientific Corporation,** 1001 Oakdale Road, Oakdale PA 15071-1500

Electric actuators for fast, easy, powerful asset management

Rotork IQ Pro electric actuators deliver powerful data logging capabilities to help you optimize valve performance for maximum productivity. They're engineered for fast, easy, powerful asset management. For multi-turn and quarter-turn applications, IQ Pro is an extremely rugged, technologically advanced actuator for tough operating environments. You simply point the intrinsically safe setting tool at IQ Pro and extract valve-related asset management data that can then be downloaded into any laptop PC or desktop computer. Rotork Insight software provides a feature-rich and user-friendly interface to help make analysis and report writing easy. Contact Rotork for an IQ Pro demo.

72 **Rotork Controls Incorporated,** 675 Mile Crossing Boulevard, Rochester NY 14624

Sockets, wrenches, torque tools made to meet oil field demands

Proto sockets, wrenches, and torque tools meet exacting standards. That's why you'll find them in demanding world wide oil field applications. Typical Proto tools include 3 7/16-in., six-point standard length impact sockets used on rigs. They are made from high alloy steel and specially heat-treated for the correct balance of strength and durability. Since the 1960s, Proto's been working in global oil patches. They know the more rugged the use — the more important is reliability: reliable people, reliable equipment, and reliable tools.

73 **Stanley-Proto,** 2195 East View Parkway, Suite 103, Conyers GA 30014

Liquid flow measurement system for custody transfer 'peace of mind'

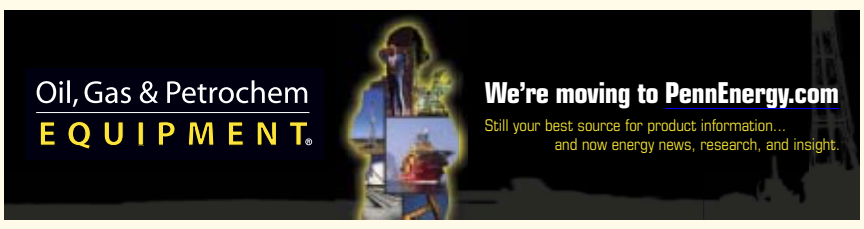
M-PULSe Multi-Path Ultrasonic Liquid flow measurement System provides the highest level of intrinsic safety and accuracy for custody transfer applications — giving you complete peace of mind. The patented system offers Zone 0 (Class I Div. 1) hazardous area certification. Its integrated flow computer with built-in API conversion tables ensures unmatched accuracy and repeatability. With M-PULSe there are no moving parts. Transducers can be replaced in minutes without interrupting your process — saving you time and money.

74 **Thermo Fisher Scientific Incorporated,** 1410 Gillingham Lane, Sugar Land TX 77478

18+ years of environmentally responsible H_2S-removal technology

Effective, environmentally responsible **hydrogen sulfide removal technology** has been delivered by this company for more than 18 years. During that time they have provided the right H_2S removal product, lowest price, most reliability, performance warranty, and green technology. Today the SulfaTreat value proposition has greatly expanded with special formulations to meet your unique gas-treating needs — with all the same predictability, reliability, and safety as the original SulfaTreat reactant.

75 **SulfaTreat, a business unit of M-I L.L.C.,** 17998 Chesterfield Airport Road, Suite 215, Chesterfield MO 63005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A Force in Domestic Manufacturing

Because Omega Engineering offers over 100,000 products, many customers have the erroneous impression that the company is simply a catalog house, distributing products made by others. Actually, Omega is a major manufacturer in its own right, making over 80% of the products it offers, with this percentage continuously increasing. At a time when "outsourcing" seems to be the theme of many US manufacturers, Omega Engineering, headquartered in Stamford, Connecticut, remains a notable exception. The company has nearly 400,000 square feet of manufacturing space spread among 4 locations in nearly a dozen facilities located coast to coast, and, as new products are introduced, this domestic production space is increased. Here are some specific examples of current manufacturing operations at various Omega facilities.

Wire Production

Manufacturing at Omega starts near the bottom of the supply chain. The company actually produces its own thermocouple wire at a manufacturing operation that turns out tens of millions of feet per year. Starting with bare wire stock in a wide range of compositions and diameters, finished cable is made for a myriad of Omega products. Specialized machines turn out braided, extruded, glass-wrapped, shielded, single conductor, multi-conductor, twisted shielded pairs, Kapton coated, and PFA coated cable in both solid and stranded styles. The smallest size used is 40 gauge, which is much finer than a human hair. Such small gauge sizes are used in many temperature and pressure sensors, and Omega production personnel have become experts in handling these super fine wires. If you can think of a wire type, it is probably made in the Omega facility. 448

Thermocouple Connectors

Omega is the world's largest manufacturer of thermocouple connectors both in volume and selection. These connectors are used directly on Omega products and are available separately to end users. The company has an in-house molding operation for the plastic shells, and also makes the other components, such as plugs and jacks, strain relief parts, cable clamps, and mounting accessories. A review of Omega's Handbooks and Encyclopedias or web site shows an astonishing range of styles and options to fill any need imaginable and they are all manufactured by Omega. Such an extensive product offering could be an overwhelming logistical challenge if dozens of vendors were used or the parts were manufactured overseas. By manufacturing these parts, Omega can maintain complete control over quality, inventory, and delivery. 449

Temperature Probes

Omega boasts an automated probe manufacturing facility that is unequalled. Starting with coils of flat metal stock and a wide range of wire types, a highly automated production line fabricates probe sheath, with wiring enclosed, in coils which can be hundreds of feet in length. Sheath sizes range from an incredibly thin 0.010 inches up to a robust 0.375 inches. While other manufacturers make the probes individually to a specific length, Omega can make any desired length by simply cutting it from the probe coil. The temperature sensor (thermocouple or RTD) is then added to one end, leads added to the other and the unit is sealed, tested, calibrated, and ready to go. 450

Thin Film Fabrication

RTD elements used in temperature sensors and probes are made in Omega's own thin film fabrication facility located in a class 10 clean room. Here the RTD elements are created on substrates, 2000 at a time, using the latest vacuum deposition and photolithography equipment and processes. After leaving the clean room, the elements are laser trimmed to the correct resistance, assembled into completed sensors with leads attached, tested, and sorted. While many of these processes are automated, a highly skilled production team carries out those steps that are best done manually. From here the completed RTD sensors are routed to other manufacturing locations for incorporation into a wide variety of end products. 451

Benefits of In-House Manufacturing

Omega products are used in many critical applications in manufacturing, food processing, medicine, aerospace, and science, to name a few. By making the individual components within the company, Omega can achieve a measure of control not possible when critical parts are supplied by a variety of vendors with a variety of reliabilities. Through extensive use of automation and in-process quality testing, the uncertainties that can be associated with outside vendors have been eliminated. This is key to the high esteem Omega enjoys among its customers and its reputation for highly consistent, top quality products. And, in the event of a problem, you are dealing directly with the manufacturer who can resolve it.

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